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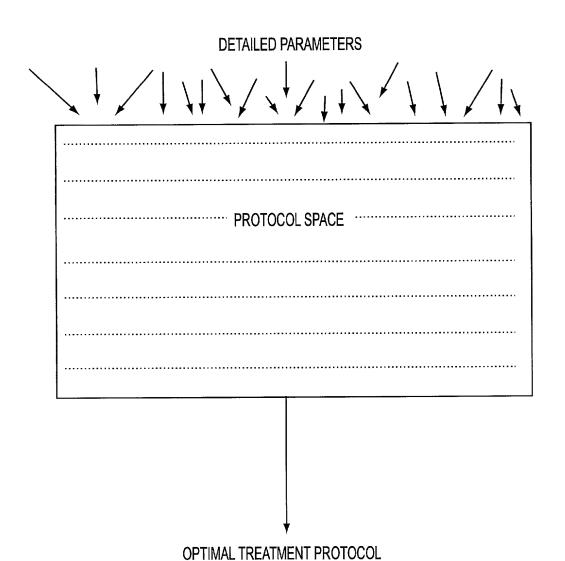


FIG. 1

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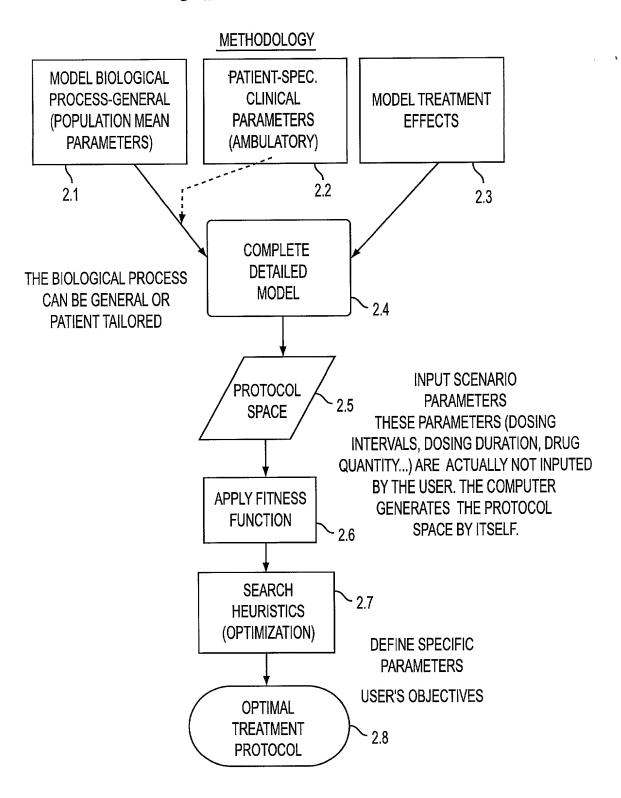


FIG. 2A

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METHODOLOGY (2)

ATTEMPTING TO OPTIMIZE SOME INSTANCE OF A CHEMOTHERAPY PROBLEM WITH A GIVEN SET OF SOLUTIONS...

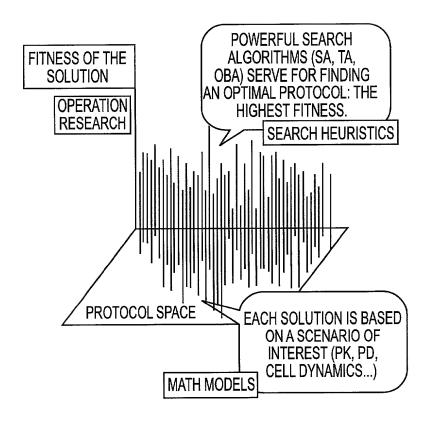
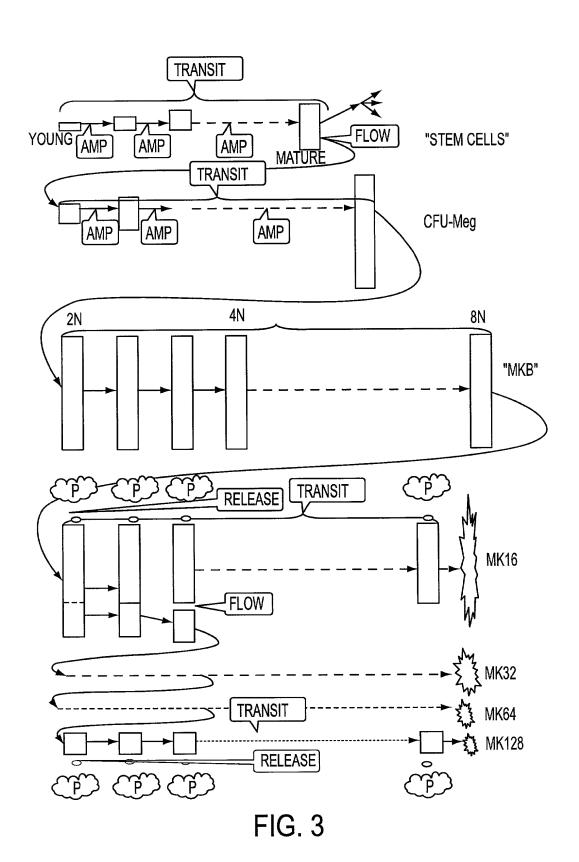


FIG. 2B

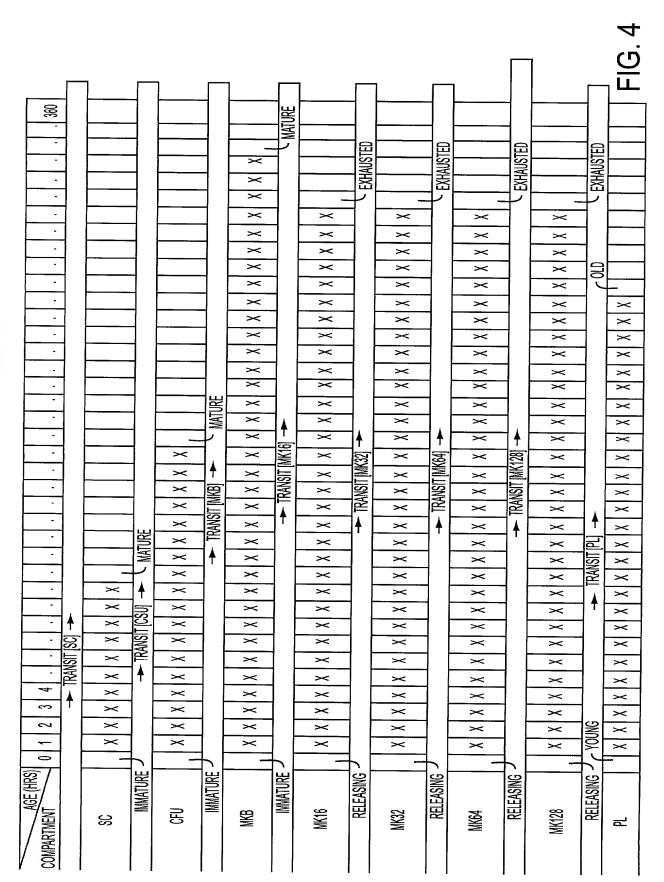
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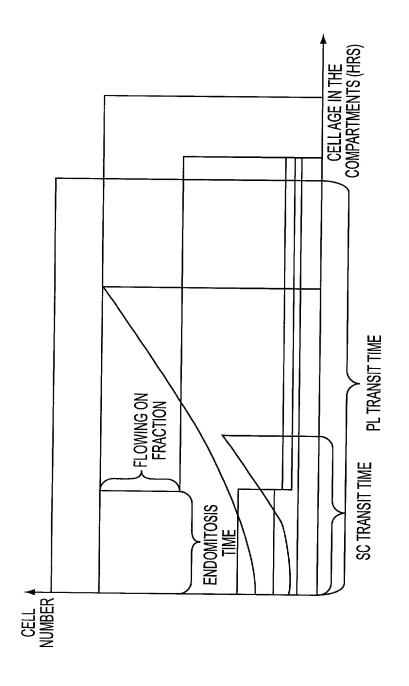


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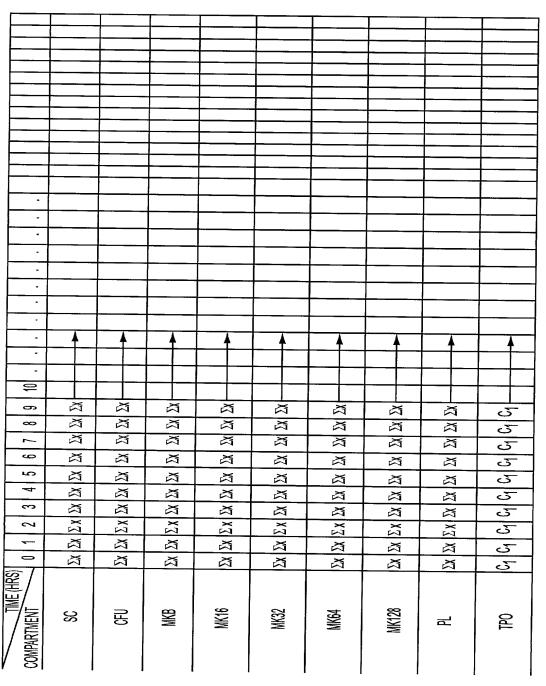
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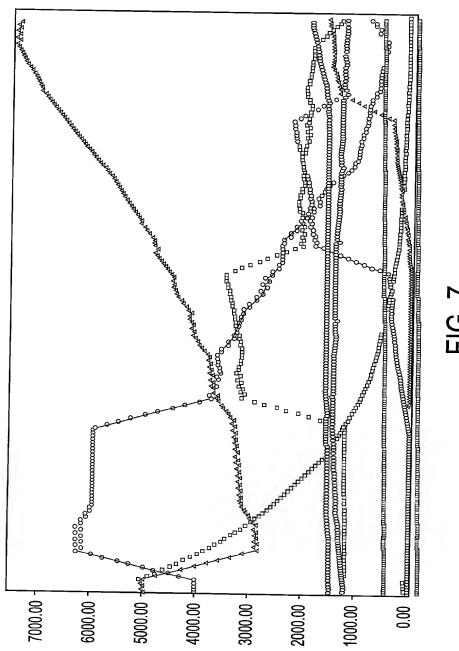
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SIMULATIONS SHOWING THAT IF THE PROTOCOL IS PRE-CALCULATED THEN A SIMILAR OR A HIGHER EFFICACY CAN BE OBTAINED USING 4-FOLD REDUCED TOTAL DOSE OF TPO.

TPO USE IN HEALTHY DONORS:

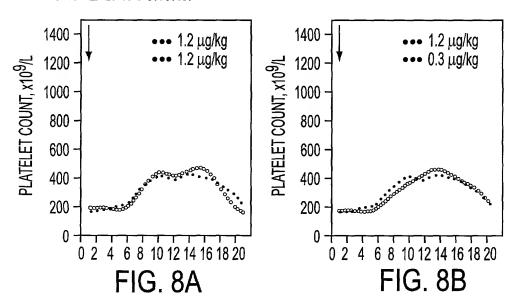


FIG. 8 TPO GIVEN TO HEALTHY DONORS- RESULTS OF TPO CLINICAL TRIALS FROM RECENT RESEARCH ON HEALTHY PLATELET DONORS, AS COMPARED TO OUR COMPUTER SIMULATION RESULTS. ARROWS INDICATE THE START OT TPO TREATMENT. (A) COMPARISON OF EXPERIMENTAL DATA FROM PUBLISHED ARTICLES 1 (BLACK) AND OUR MODEL SIMULATION (GREEN), IN BOTH TPO WAS GIVEN AS A SINGLE IV DOSE OF 1.2 μ g/kg ON DAY 0. (B) COMPARISON OF THE SAME EXPERIMENTAL DATA (BLACK) AND OUR PROPOSED TPO ADMINISTRATION PROTOCOL; THE TOTAL DOSE IN THE SIMULATED PROTOCOL WAS 0.3 μ g/kg (BLUE).

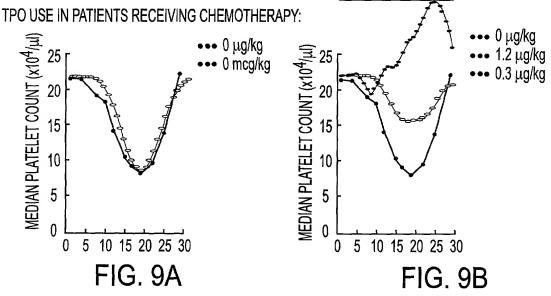


FIG. 9: TPO WITH CHEMOTHERAPY- (A) RESULTS OF CLINICAL TRIALS FROM RECENT RESEARCH ON THROMBOCYTOPENIA INDUCED IN PATIENTS RECEIVING SINGLE CARBOPLATIN CHEMOTHERAPY² DAY 0 (BLACK), AS COMPARED TO OUR MODEL SIMULATION OF THESE RESULTS (GREEN). (B) THE SAME EXPERIMENTAL DATA (BLACK); SIMULATIONS OF THE SAME EXPERIMENT, WITH ADDITION OF "CONVENTIONAL" TPO PROTOCOL OF A SINGLE IV DOSE OF 1.2 µg/kg ON DAY 0 (OLIVE); SIMULATIONS OF THE SAME EXPERIMENT UNDER OUR PROPOSED PROTOCOL THAT TOTALS 0.3 µg/kg (BLUE).

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MITOTIC COMPARTMENT

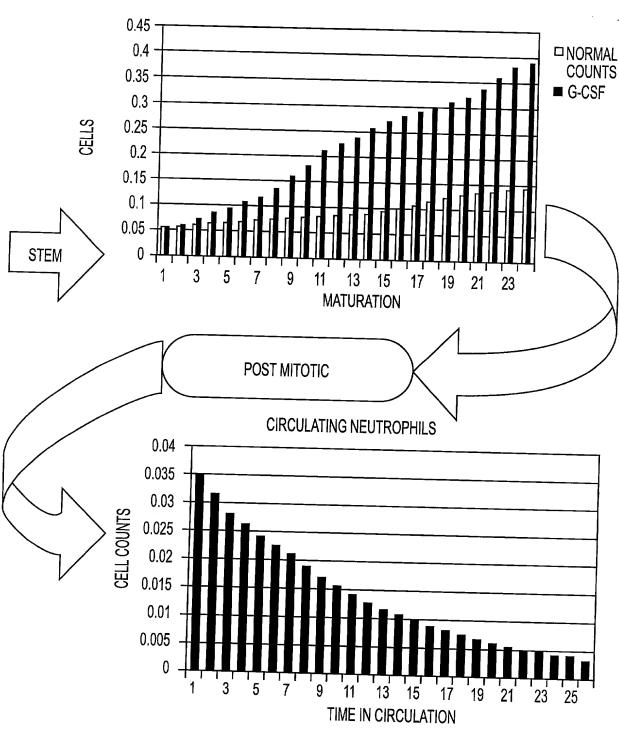


FIG. 10

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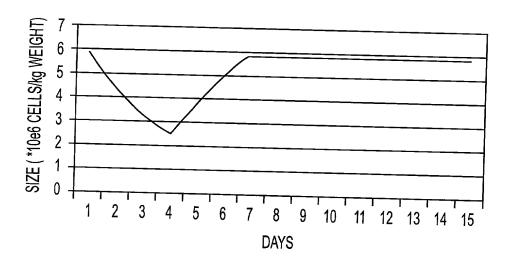
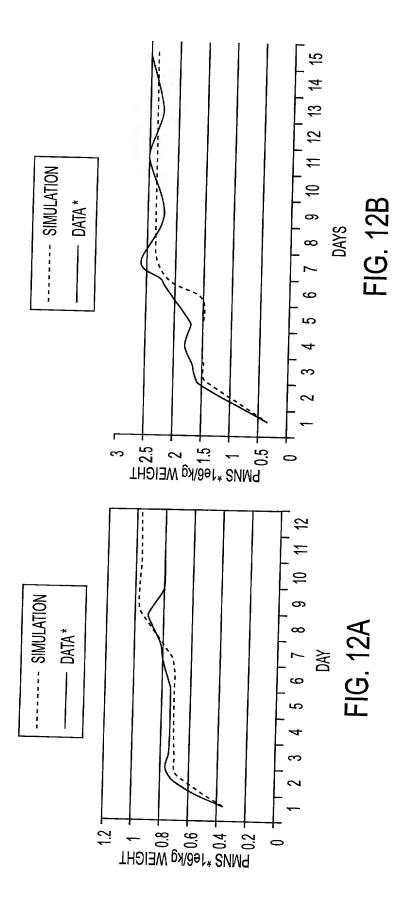


FIG. 11

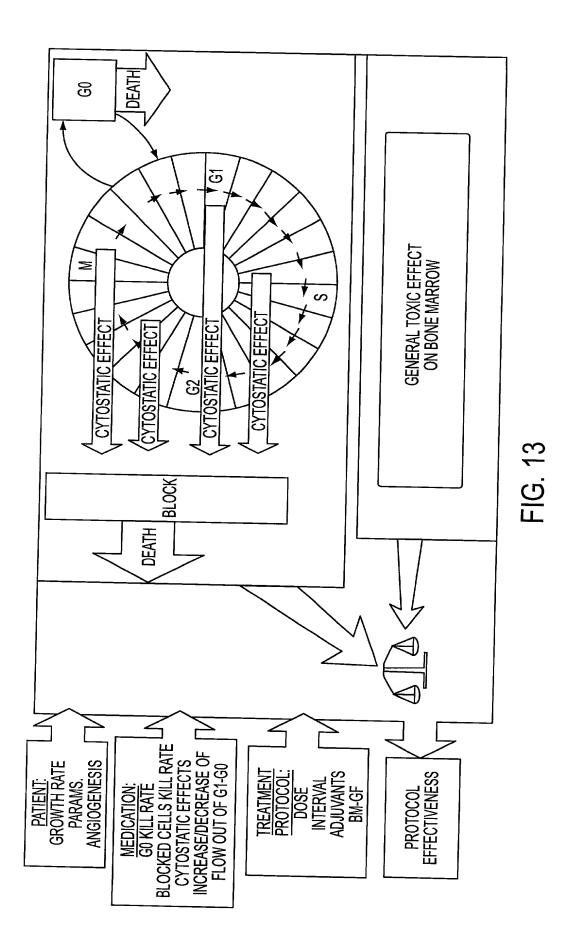
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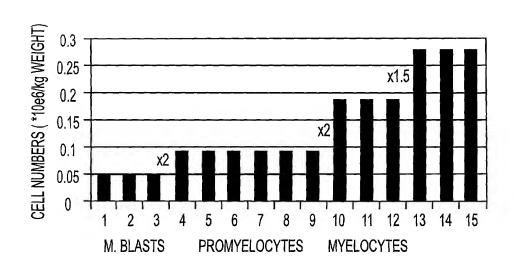


FIG. 14. SIMULATED MITOTIC COMPARTMENT AGE DISTRIBUTION AND AMPLIFICATION VALUES IN UNTREATED HUMANS. EACH BAR REPRESENTS A GROUPING OF 8 COHORTS OF ONE HOUR. AMPLIFICTION IS NOTED AT THE PLACE OF OCCURENCE.

FIG. 14

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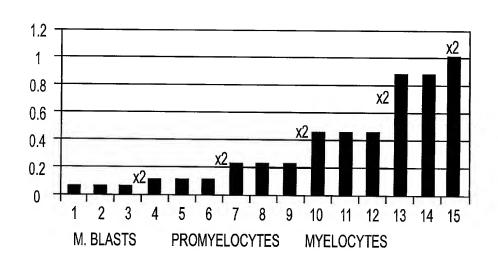


FIG. 15. SIMULATED MITOTIC COMPARTMENT AGE DISTRIBUTION AND AMPLIFICATION VALUES IN HUMANS TREATED WITH 300 μg OF G-CSF AFTER 15 DAYS. EACH BAR REPRESENTS A GROUPING OF 8 COHORTS OF ONE HOUR. AMPLIFICATION IS NOTED AT THE PLACE OF OCCURRENCE. NOTE, THAT THE LAST HOURLY COHORT OF THE METAMYELOCYTES UNDERGOES MITOSIS, BUT ITS EFFECTS ARE DAMPENED IN THIS GRAPH DUE TO THE 8H GROUPING.

FIG. 15